

2045

OCT 17 REC'D

~~1004~~

204680

## SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 10/14/06 Serial # 10659039 Priority Application Date 6/12/01  
Your Name M. Lewis Examiner # \_\_\_\_\_  
AU 2892 Phone 292-4838 Room 5A30  
In what format would you like your results? Paper is the default. PAPER DISK EMAIL  
If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPT DWPI EPO Abs JPO Abs IBM TDB

Other: \_\_\_\_\_

Need before  
10/23

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs ☒ Nonpatent Literature ☐ Teaching Refs ☐  
Secondary Refs ☐ Foreign Patents ☐ Other ☐Is this a "Fast & Focused Search" request? (Circle One) YES NO

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-patfr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 5+6

Problem: See pages 1+2  
Solution: " " 2+3

LED

James Patent No # 357194588  
5, 723, 363

## Staff Use Only

Searcher: HARRISONSearcher Phone: 22511

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 10-23Date Completed: 10-23-06Searcher Prep/Rev Time: 70Online Time: 100

## Type of Search

Structure (#)

Bibliographic

Litigation

Fulltext

Patent Family

Other

## Vendors

STN

Dialog

Questel/Orbit

Lexis-Nexis

WWW/Internet

Other

----- 10/23/06

23oct06 10:42:04 User259284 Session D3822.2

File 2:INSPEC 1898-2006/Oct W3  
(c) 2006 Institution of Electrical Engineers

Set	Items	Description
S1	50457	R1:R5 OR R8 OR ELECTROLUM? OR EL OR LEDS OR LIGHT()EMIT???- ?? OR LED(2N)(DISPLAY? ? OR DIODE? ? OR DEVICE? ? OR LIGHT OR ELEMENT? ? OR MODULE? ?)
S2	26760	'RESINS' OR RESINS OR EPOX?????
S3	207	1AND2
S4	0	S3 AND CTE
S5	1	S3 AND EXPANSION
S6	178033	'THERMAL EXPANSION' OR 'COEFFICIENT OF THERMAL EXPANSION' - OR 'ELONGATION' OR CTE OR EXPANSION
S7	343	1AND6
S8	2	S7 AND SEAL?????
S9	0	S7 AND POTT?????
S10	1	S7 AND ENCAPSUL??????
S11	2	S8:S9
S12	86294	R1:R13 OR DICED OR DICING OR CUTTING OR SINGULAT??????
S13	219	S1 AND S12
S14	6	S2:S7 AND S13
S15	5	S14 NOT (S5 OR S11)
S16	6017	RESINS/TI,AB (January 2004)
S17	862	EPOXIES/TI,AB
S18	162	EPOXIDES/TI,AB
S19	348	S6 AND S16:S18
S20	49	CTE AND S16:S18
S21	1	TEC AND S16:S18
S22	0	C()T()E AND S16:S18
S23	0	T()E()C AND S16:S18
S24	318	THERMAL??? (3N) (STRESS????? OR STRAIN????? OR EXPAN????? OR - ELONG?????) AND S16:S18
S25	444	S19:S24
S26	444	S25 NOT (S15 OR S11 OR S5)
S27	5	S26 AND TRANSPAREN??????
S28	5	S26 AND REFLECT??????
S29	10	S27:S28
S30	147	16AND17
S31	29	16AND18
S32	8	17AND18
S33	2	S30:S32 AND S1
S34	2	S33 NOT (S29 OR S15 OR S11 OR S5)

----- 10/23/06

23oct06 10:54:45 User259284 Session D3822.3

SYSTEM:OS - DIALOG OneSearch

File 34:SciSearch(R) Cited Ref Sci 1990-2006/Oct W3

(c) 2006 The Thomson Corp

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

(c) 2006 The Thomson Corp

Set	Items	Description
S1	1413	AU=USMANI?
S2	850	AU=SALYER?
S3	2	S1:S2 AND LEDS
S4	16	S1:S2 AND LIGHT()EMIT?????
S5	135	S1:S2 AND RESIN??????
S6	50	S1:S2 AND EPOX????
S7	43	S1:S2 AND SEAL????
S8	32	S1:S2 AND ENCAPSUL?????
S9	80	S1:S2 AND THERMAL??(3N)(EXPANSION?? OR PROPERT??? OR COEFF OR COEFFS OR COEFFICIENT??)
S10	0	S1:S2 AND EL
S11	0	S1:S2 AND ELECTROLUM??????
S12	0	S1:S2 AND CTE
S13	0	S1:S2 AND TEC
S14	2	S1:S2 AND MISMATCH????
S15	27	S1:S2 AND COMPATIB???????
S16	5	S1:S2 AND MATCH???????
S17	0	S1:S2 AND COMPATAB???????
S18	7	S1:S2 AND LED/TI,DE,ID
S19	39	S3:S4 OR S8
S20	0	S1:S2 AND OLED? ?
S21	0	S1:S2 AND PLED? ?
S22	18	S3:S4 OR S18
S23	277	S5:S16
S24	16	22AND23
S25	6	RD S24 (unique items)
S26	265	AU=HAMID S?
S27	331	AU=HAMID, S?
S28	8	S1:S25 AND S26:S27
S29	2	RD S28 (unique items)
S30	1	S29 NOT S25

## CAS/STN FILE 'HCAPLUS' ENTERED AT 09:55:53 ON 23 OCT 2006

L1 2632 SEA ABB=ON PLU=ON (LED OR LIGHT EMITTING) (3A) (?ARRAY? OR ?MATRI?)

L2 56 SEA ABB=ON PLU=ON (LED OR LIGHT EMITTING) (3A) ROW###

L3 439 SEA ABB=ON PLU=ON (LED OR LIGHT EMITTING) (3A) COLUMN####

L4 115 SEA ABB=ON PLU=ON MULTI(1W) (LED OR LIGHT EMITTING)

L5 237 SEA ABB=ON PLU=ON MULTIPLE(1W) (LED OR LIGHT EMITTING)

L6 1096 SEA ABB=ON PLU=ON (PLURAL#### OR SEVERAL####) (1W) (LED OR LIGHT EMITTING)

L7 240 SEA ABB=ON PLU=ON (DICING OR CUTTING OR CUT OR DICE OR DICED) (3A) (LED OR LIGHT EMITTING)

L8 4577 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7)

L9 1119 SEA ABB=ON PLU=ON (EPOX##### OR RESIN####) (2A) (LED OR LEDS OR LIGHT EMITTER OR LIGHT EMITTING OR DIODE)

L10 5641 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L9)

L11 4597 SEA ABB=ON PLU=ON WHITE(2W) PIGMENT#####

L12 79033 SEA ABB=ON PLU=ON (REFLECT#### OR FILM OR LAYER OR FILLED OR FILL#### OR PARTICLE OR PARTICULATE OR POWDER#### OR PULVER### OR GRANULE OR GRANULATED OR GRAINS) (3A) (ANATASE OR WHITE OR RUTILE OR TIO2 OR (TI OR TITANIUM) (W) OXIDE OR DIOXIDE)

L13 27015 SEA ABB=ON PLU=ON (PIGMENT#### OR TINT#### OR COLOR#### OR COLOUR####) (3A) (ANATASE OR WHITE OR RUTILE OR TIO2 OR (TI OR TITANIUM) (W) OXIDE OR DIOXIDE)

## FILE 'REGISTRY' ENTERED AT 10:03:15 ON 23 OCT 2006

L14 1276 SEA ABB=ON PLU=ON RUTILE OR ANATASE OR O.TI/MF OR O TI/ELF

## FILE 'HCAPLUS' ENTERED AT 10:03:44 ON 23 OCT 2006

L15 151 SEA ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14) AND L10

## FILE 'REGISTRY' ENTERED AT 10:03:56 ON 23 OCT 2006

E EPOX/PCT

L16 50141 SEA ABB=ON PLU=ON "EPOXY RESIN"/PCT

L17 813 SEA ABB=ON PLU=ON EPOX##### AND RESIN

L18 145576 SEA ABB=ON PLU=ON EPOXY

L19 4422 SEA ABB=ON PLU=ON EPOX##### (6A) (POLYMER OR COPOLYMER OR HOMOPOLYMER OR MONOMER)

## FILE 'HCAPLUS' ENTERED AT 10:05:34 ON 23 OCT 2006

L20 167 SEA ABB=ON PLU=ON L10 AND (L16 OR L17 OR L19)

L21 79 SEA ABB=ON PLU=ON (LEDS OR LIGHT EMITTING DIODE) AND (L16 OR L17 OR L19)

L22 535 SEA ABB=ON PLU=ON (LEDS OR LIGHT EMITTING DIODE) AND (L11 OR L12 OR L13 OR L14)

L23 195 SEA ABB=ON PLU=ON L10 AND L18

L24 22905 SEA ABB=ON PLU=ON (LEDS OR LIGHT EMITTING DIODE)

L25 111 SEA ABB=ON PLU=ON L24 AND L18

## FILE 'STNGUIDE' ENTERED AT 10:09:54 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 10:11:34 ON 23 OCT 2006

L26 637 SEA ABB=ON PLU=ON L15 OR L22

## FILE 'STNGUIDE' ENTERED AT 10:11:35 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 10:15:01 ON 23 OCT 2006

L27 235117 SEA ABB=ON PLU=ON L20 OR L21 OR L23 OR L25 OR EPOXY  
 L28 385 SEA ABB=ON PLU=ON (L11 OR L12 OR L13 OR L14) AND LIGHT  
 EMITTING DEVICE  
 L29 930 SEA ABB=ON PLU=ON L26 OR L28  
 L30 90 SEA ABB=ON PLU=ON L27 AND L29  
 L31 16 SEA ABB=ON PLU=ON L30 AND (REFLECTIVE OR REFLECTOR OR LIGHT  
 REFLECTING)  
 L32 25 SEA ABB=ON PLU=ON L30 AND TRANSPAREN#####  
 L33 3 SEA ABB=ON PLU=ON L30 AND TRANSLUCEN#####  
 L34 3 SEA ABB=ON PLU=ON L30 AND LIGHT TRANSMI#####  
 L35 0 SEA ABB=ON PLU=ON L30 AND SPECULAR  
 L36 30 SEA ABB=ON PLU=ON (L32 OR L33 OR L34)  
 L37 30 SEA ABB=ON PLU=ON L30 AND L36  
 L38 1953 SEA ABB=ON PLU=ON (REFLECT#####(6A)(EPOXY OR RESIN))  
 L39 11809 SEA ABB=ON PLU=ON TRANSPAREN#####(6A)(EPOXY OR RESIN)  
 L40 16868 SEA ABB=ON PLU=ON SUBSTRATE(6A)(EPOXY OR RESIN)  
 L41 37 SEA ABB=ON PLU=ON L38 AND L39 AND L40  
 L42 25 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND (CTE OR THERMAL EXPANSION OR EXPANSION COEFFICIENT)  
 L43 5 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND THINNER  
 L44 1 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND ULTRA THIN  
 L45 0 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND SUPER THIN  
 L46 0 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND SUPERTHIN  
 L47 5 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND ULTRATHIN  
 L48 184 SEA ABB=ON PLU=ON ((L38 AND L39) OR (L38 AND L40) OR (L39  
 AND L40)) AND THICKNESS  
 L49 1 SEA ABB=ON PLU=ON (L42 OR L43 OR L44 OR L45 OR L46 OR L47 OR  
 L48) AND LEDS  
 L50 2 SEA ABB=ON PLU=ON (L42 OR L43 OR L44 OR L45 OR L46 OR L47 OR  
 L48) AND LIGHT EMITTING

## FILE 'STNGUIDE' ENTERED AT 10:23:09 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 10:33:17 ON 23 OCT 2006

L51 3 SEA ABB=ON PLU=ON L31 AND L32  
 L52 0 SEA ABB=ON PLU=ON L29 AND L48  
 L53 0 SEA ABB=ON PLU=ON L48 AND FLUSH  
 L54 2 SEA ABB=ON PLU=ON L48 AND AGAINST  
 L55 0 SEA ABB=ON PLU=ON L48 AND WALLS  
 L56 9 SEA ABB=ON PLU=ON L48 AND SIDES  
 L57 4 SEA ABB=ON PLU=ON L48 AND SURFACES  
 L58 6 SEA ABB=ON PLU=ON L48 AND DIRECTLY  
 L59 1 SEA ABB=ON PLU=ON L48 AND DIRECT  
 L60 1 SEA ABB=ON PLU=ON L48 AND ADHERING  
 L61 134 SEA ABB=ON PLU=ON (L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR  
 L37) OR (L41 OR L42 OR L43 OR L44 OR L45 OR L46 OR L47) OR  
 (L49 OR L50) OR (L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR  
 L57 OR L58 OR L59 OR L60)

## FILE 'HCAPLUS' ENTERED AT 10:33:17 ON 23 OCT 2006

L62 3 SEA ABB=ON PLU=ON L61 AND LEDS/TI  
 L63 9 SEA ABB=ON PLU=ON L61 AND LED/TI  
 L64 24 SEA ABB=ON PLU=ON L61 AND LIGHT EMIT#####/TI  
 L65 0 SEA ABB=ON PLU=ON L61 AND CTE/TI  
 L66 7 SEA ABB=ON PLU=ON L61 AND EXPANSION/TI  
 L67 42 SEA ABB=ON PLU=ON (L33 OR L34) OR (L43 OR L44 OR L45 OR L46  
 OR L47) OR (L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR  
 L56 OR L57 OR L58 OR L59 OR L60)  
 L68 55 SEA ABB=ON PLU=ON (L62 OR L63) OR L66 OR L67  
 L69 336 SEA ABB=ON PLU=ON (L30 OR L31 OR L32 OR L33 OR L34 OR L35 OR  
 L36 OR L37) OR (L41 OR L42 OR L43 OR L44 OR L45 OR L46 OR L47  
 OR L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56  
 OR L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR L63 OR L64)  
 L70 169 SEA ABB=ON PLU=ON L69 AND RESINS  
 L71 1 SEA ABB=ON PLU=ON L69 AND EPOXIES  
 L72 4 SEA ABB=ON PLU=ON L69 AND EPOXIDES  
 L73 14 SEA ABB=ON PLU=ON L70 AND THICK##### AND (ULTRATHIN? OR  
 SUPERTHIN##### OR THIN#####)  
 L74 0 SEA ABB=ON PLU=ON L70 AND CTE(6A) (RESIN##### OR EPOX#####)  
 L75 6 SEA ABB=ON PLU=ON L70 AND EXPANSION(6A) (RESIN##### OR  
 EPOX#####)  
 L76 3 SEA ABB=ON PLU=ON L70 AND ARRAY#####  
 L77 17 SEA ABB=ON PLU=ON L70 AND MATRI#####  
 L78 86 SEA ABB=ON PLU=ON (L33 OR L34) OR (L43 OR L44 OR L45 OR L46  
 OR L47) OR (L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR  
 L56 OR L57 OR L58 OR L59 OR L60) OR (L62 OR L63) OR L66 OR  
 (L71 OR L72 OR L73 OR L74 OR L75 OR L76 OR L77)  
 L79 30 SEA ABB=ON PLU=ON L78 AND 1990-2001/PY  
 L80 2 SEA ABB=ON PLU=ON L78 AND 1980-1989/PY  
 L81 4 SEA ABB=ON PLU=ON L78 AND 1980-1989/PRY  
 L82 30 SEA ABB=ON PLU=ON L78 AND 1990-2001/PRY  
 L83 50 SEA ABB=ON PLU=ON L78 AND 2001-2006/PRY  
 L84 63 SEA ABB=ON PLU=ON L78 AND 2001-2006/PY  
 L85 36 SEA ABB=ON PLU=ON L78 NOT L83  
 L86 23 SEA ABB=ON PLU=ON L78 NOT L84  
 L87 23 SEA ABB=ON PLU=ON L85 AND L86  
 L88 41 SEA ABB=ON PLU=ON (L79 OR L80 OR L81 OR L82) OR L87  
 L89 3 SEA ABB=ON PLU=ON L88 AND REFLECT##### (5A) TRANSPAREN#####

## FILE 'STNGUIDE' ENTERED AT 10:45:09 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 10:45:56 ON 23 OCT 2006

L90 7 SEA ABB=ON PLU=ON ?REFLECTOR? AND L88  
 L91 0 SEA ABB=ON PLU=ON ?MIRROR? AND L88  
 L92 0 SEA ABB=ON PLU=ON SPECULAR AND L88  
 L93 6 SEA ABB=ON PLU=ON L90 NOT L89  
 L94 22398 SEA ABB=ON PLU=ON (RESIN##### OR EPOX##### OR REFLECT##### OR  
 MIRROR#####) (6A) (SIDES OR PERIPHER##### OR VERTICAL SURFACES  
 OR SIDEWALLS OR PERIMET##### OR EDGE OR OUTER OR OUTSIDE OR  
 EXTERNAL## OR AROUND OR SURROUND####)

## FILE 'HCAPLUS' ENTERED AT 10:45:56 ON 23 OCT 2006

L95 2305 SEA ABB=ON PLU=ON (L2 OR L3 OR L4 OR L5) OR L7 OR L15 OR  
 (L20 OR L21 OR L22 OR L23) OR L25 OR L26 OR (L28 OR L29 OR L30  
 OR L31 OR L32 OR L33 OR L34 OR L35 OR L36 OR L37)  
 L96 336 SEA ABB=ON PLU=ON (L41 OR L42 OR L43 OR L44 OR L45 OR L46 OR  
 L47 OR L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR  
 L56 OR L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR L63 OR L64 OR  
 L65 OR L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73 OR  
 L74 OR L75 OR L76 OR L77 OR L78 OR L79 OR L80 OR L81 OR L82 OR  
 L83 OR L84 OR L85 OR L86 OR L87 OR L88)  
 L97 2551 SEA ABB=ON PLU=ON L95 OR L96  
 L98 37 SEA ABB=ON PLU=ON L94 AND L97  
 L99 30924 SEA ABB=ON PLU=ON (RESIN#### OR EPOX#### OR REFLECT##### OR  
 MIRROR#####) (6A) (INJECT##### OR POTT#### OR SEAL##### OR  
 ENCAPSUL#### OR ADHERED)  
 L100 139 SEA ABB=ON PLU=ON L97 AND L99  
 L101 172 SEA ABB=ON PLU=ON L98 OR L100  
 L102 171 SEA ABB=ON PLU=ON L101 NOT (L90 OR L89)  
 L103 5 SEA ABB=ON PLU=ON L102 AND REFLECT##### (6A) TRANSPAREN#####  
 L104 6 SEA ABB=ON PLU=ON L102 AND PIGMENT#####  
 L105 16 SEA ABB=ON PLU=ON L102 AND WHITE  
 L106 24 SEA ABB=ON PLU=ON (L103 OR L104 OR L105)  
 L107 17 SEA ABB=ON PLU=ON L106 AND 2001-2006/PY,PRY  
 L108 14 SEA ABB=ON PLU=ON L106 AND 1990-2001/PY,PRY  
 L109 1 SEA ABB=ON PLU=ON L106 AND 1980-1989/PY,PRY  
 L110 7 SEA ABB=ON PLU=ON L106 NOT L107  
 L111 15 SEA ABB=ON PLU=ON (L108 OR L109 OR L110)  
 L112 15 SEA ABB=ON PLU=ON L111 NOT (L90 OR L89)  
 L113 5504 SEA ABB=ON PLU=ON LED/TI AND (DEVICE OR PACKAGE OR ELEMENT  
 OR COMPONENT OR MODULE)  
 L114 1176 SEA ABB=ON PLU=ON (L28 OR L29 OR L30 OR L31 OR L32 OR L33 OR  
 L34 OR L35 OR L36 OR L37) OR (L41 OR L42 OR L43 OR L44 OR L45  
 OR L46 OR L47 OR L48 OR L49 OR L50)  
 L115 336 SEA ABB=ON PLU=ON (L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR  
 L57 OR L58 OR L59 OR L60 OR L61 OR L62 OR L63 OR L64 OR L65 OR  
 L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73 OR L74 OR  
 L75 OR L76 OR L77 OR L78 OR L79 OR L80 OR L81 OR L82 OR L83 OR  
 L84 OR L85 OR L86 OR L87 OR L88)  
 L116 1278 SEA ABB=ON PLU=ON L96 OR L98 OR (L100 OR L101 OR L102 OR  
 L103 OR L104 OR L105 OR L106 OR L107 OR L108 OR L109 OR L110  
 OR L111 OR L112) OR L114 OR L115  
 L117 128 SEA ABB=ON PLU=ON L113 AND (L114 OR L115 OR L116)  
 L118 122 SEA ABB=ON PLU=ON L117 NOT (L90 OR L89 OR L112)  
 L119 4 SEA ABB=ON PLU=ON L118 AND THIN#####  
 L120 0 SEA ABB=ON PLU=ON L118 AND ULTRATHIN#####  
 L121 0 SEA ABB=ON PLU=ON L118 AND SUPERTHIN#####  
 L122 0 SEA ABB=ON PLU=ON L118 AND MICROTIN#####  
 L123 0 SEA ABB=ON PLU=ON L118 AND NANOTHIN#####  
 L124 0 SEA ABB=ON PLU=ON L118 AND CTE  
 L125 2 SEA ABB=ON PLU=ON L118 AND EXPANSION  
 L126 6 SEA ABB=ON PLU=ON (L119 OR L120 OR L121 OR L122 OR L123 OR  
 L124 OR L125)  
 L127 5 SEA ABB=ON PLU=ON L126 AND 2001-2006/PY,PRY  
 L128 1 SEA ABB=ON PLU=ON L126 NOT L127

## FILE 'HCAPLUS' ENTERED AT 10:49:17 ON 23 OCT 2006

L129 2 SEA ABB=ON PLU=ON L126 AND 1990-2001/PY, PY  
 L130 2 SEA ABB=ON PLU=ON L128 OR L129  
 L131 120 SEA ABB=ON PLU=ON L118 NOT L130  
 L132 0 SEA ABB=ON PLU=ON L131 AND EPOXIES  
 L133 0 SEA ABB=ON PLU=ON L131 AND EPOXIDES  
 L134 29 SEA ABB=ON PLU=ON L131 AND RESINS  
 L135 7 SEA ABB=ON PLU=ON L131 AND RESINS/AB  
 L136 5 SEA ABB=ON PLU=ON L135 AND 2002-2006/PY, PRY  
 L137 4 SEA ABB=ON PLU=ON L135 AND 1990-2001/PY, PY  
 L138 2 SEA ABB=ON PLU=ON L135 NOT L136  
 L139 4 SEA ABB=ON PLU=ON (L137 OR L138)  
 L140 4 SEA ABB=ON PLU=ON L139 NOT ((L90 OR L89 OR L112 OR L130))

## FILE 'STNGUIDE' ENTERED AT 11:05:13 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 11:06:19 ON 23 OCT 2006

L141 51442 SEA ABB=ON PLU=ON ELECTROLUMINESCENT DEVICES  
 L142 51894 SEA ABB=ON PLU=ON ELECTROLUMINESCENT DEVICE  
 L143 51894 SEA ABB=ON PLU=ON (L141 OR L142)  
 L144 245 SEA ABB=ON PLU=ON L143 AND L16  
 L145 97 SEA ABB=ON PLU=ON L143 AND L17  
 L146 421 SEA ABB=ON PLU=ON L143 AND L18  
 L147 145 SEA ABB=ON PLU=ON L143 AND L19  
 L148 10 SEA ABB=ON PLU=ON L143 AND EPOXIES/AB  
 L149 7 SEA ABB=ON PLU=ON L143 AND EPOXIDES/AB  
 L150 329 SEA ABB=ON PLU=ON L143 AND RESINS/AB  
 L151 763 SEA ABB=ON PLU=ON (L144 OR L145 OR L146 OR L147 OR L148 OR  
 L149 OR L150)  
 L152 27 SEA ABB=ON PLU=ON L151 AND (CTE OR EXPANSION OR RELAX#####  
 OR COMPATIBLE OR NONSTRESS#### OR UNSTRESS##### OR NON  
 STRESS#####)  
 L153 86 SEA ABB=ON PLU=ON L151 AND (THERMAL## OR NONSTRAIN##### OR  
 UNSTRAIN##### OR NON STRAIN####)  
 L154 31 SEA ABB=ON PLU=ON L151 AND (PIGMENT#### OR COLORED OR  
 COLOURED OR COLORING OR COLOURING OR TINT#####)  
 L155 31 SEA ABB=ON PLU=ON L151 AND WHITE  
 L156 91 SEA ABB=ON PLU=ON L151 AND ?THIN  
 L157 78 SEA ABB=ON PLU=ON L151 AND THIN#####  
 L158 100 SEA ABB=ON PLU=ON (L152 OR L153)  
 L159 57 SEA ABB=ON PLU=ON (L154 OR L155)  
 L160 93 SEA ABB=ON PLU=ON (L156 OR L157)  
 L161 1 SEA ABB=ON PLU=ON L158 AND L159 AND L160  
 L162 12 SEA ABB=ON PLU=ON L158 AND L159  
 L163 16 SEA ABB=ON PLU=ON L158 AND L160  
 L164 4 SEA ABB=ON PLU=ON L159 AND L160  
 L165 30 SEA ABB=ON PLU=ON (L161 OR L162 OR L163 OR L164)  
 L166 30 SEA ABB=ON PLU=ON L165 NOT (L90 OR L89 OR L112 OR L130 OR  
 L140)  
 L167 24 SEA ABB=ON PLU=ON L166 AND 2002-2006/PY, PRY  
 L168 11 SEA ABB=ON PLU=ON L166 AND 1990-2001/PY, PRY  
 L169 0 SEA ABB=ON PLU=ON L166 AND 1980-1989/PY, PRY  
 L170 6 SEA ABB=ON PLU=ON L166 NOT L167  
 L171 11 SEA ABB=ON PLU=ON L168 OR L170

## FILE 'STNGUIDE' ENTERED AT 11:14:13 ON 23 OCT 2006



## FILE 'HCAPLUS' ENTERED AT 11:17:13 ON 23 OCT 2006

L172 60960 SEA ABB=ON PLU=ON L141 OR L142 OR LEDS OR LIGHT EMITTING  
 DEVICE OR LIGHT EMITTING DIODE  
 L173 1698 SEA ABB=ON PLU=ON L172 AND (EPOXIES OR RESINS OR EPOXIDES OR  
 EPOXY/TI,ST,CT,IT)  
 L174 84 SEA ABB=ON PLU=ON L173 AND REFLECTOR  
 L175 6 SEA ABB=ON PLU=ON L173 AND REFLECTION LAYER  
 L176 4 SEA ABB=ON PLU=ON L173 AND REFLECTING LAYER  
 L177 63 SEA ABB=ON PLU=ON L173 AND REFLECT#####(5A)(EPOX##### OR  
 RESIN####)  
 L178 0 SEA ABB=ON PLU=ON L173 AND REFLECTER  
 L179 126 SEA ABB=ON PLU=ON (L174 OR L175 OR L176 OR L177)  
 L180 27 SEA ABB=ON PLU=ON L179 AND TRANSPAREN#####  
 L181 7 SEA ABB=ON PLU=ON L179 AND LIGHT(2A)TRANSMI#####  
 L182 1 SEA ABB=ON PLU=ON L179 AND WINDOW#####  
 L183 2 SEA ABB=ON PLU=ON L179 AND OPENINGS  
 L184 0 SEA ABB=ON PLU=ON L179 AND APERTURES  
 L185 33 SEA ABB=ON PLU=ON (L180 OR L181)  
 L186 35 SEA ABB=ON PLU=ON (L180 OR L181 OR L182 OR L183)  
 L187 34 SEA ABB=ON PLU=ON L186 NOT (L90 OR L89 OR L112 OR L130 OR  
 L140 OR L171)  
 L188 SEL PLU=ON L187 1- PRN : 50 TERMS

## FILE 'WPIX, JAPIO' ENTERED AT 11:21:54 ON 23 OCT 2006

L189 65 SEA ABB=ON PLU=ON L188  
 L190 21 SEA ABB=ON PLU=ON L189 AND EPOX#####  
 L191 4 SEA ABB=ON PLU=ON L189 AND RESINS  
 L192 22 SEA ABB=ON PLU=ON (L190 OR L191)  
 L193 18 SEA ABB=ON PLU=ON L192 AND REFLECT#####  
 L194 19 SEA ABB=ON PLU=ON L192 AND TRANSPAREN#####  
 L195 15 SEA ABB=ON PLU=ON L193 AND L194  
 L196 0 SEA ABB=ON PLU=ON L189 AND CTE  
 L197 0 SEA ABB=ON PLU=ON L189 AND TEC  
 L198 0 SEA ABB=ON PLU=ON L189 AND C T E  
 L199 0 SEA ABB=ON PLU=ON L189 AND EXPANSION  
 L200 2 SEA ABB=ON PLU=ON L189 AND EPOX#####(6A) EPOX#####  
 L201 15 SEA ABB=ON PLU=ON (L195 OR L196 OR L197 OR L198 OR L199 OR L200)  
 L202 12 SEA ABB=ON PLU=ON L201 AND 2001-2006/PRY,PY  
 L203 9 SEA ABB=ON PLU=ON L201 AND 1990-2001/PRY,PY  
 L204 0 SEA ABB=ON PLU=ON L201 AND 1980-1989/PRY,PY  
 L205 3 SEA ABB=ON PLU=ON L201 NOT L202  
 L206 9 SEA ABB=ON PLU=ON (L203 OR L204 OR L205)

## FILE 'STNGUIDE' ENTERED AT 11:26:18 ON 23 OCT 2006

## FILE 'WPIX, HCAPLUS' ENTERED AT 11:27:30 ON 23 OCT 2006

E JP57194588/PN  
 L207 2 SEA ABB=ON PLU=ON JP57194588/PN  
 L208 1 SEA ABB=ON PLU=ON US5723363/PN

## FILE 'HCAPLUS' ENTERED AT 11:28:48 ON 23 OCT 2006

E US 5723363/RE  
 L209 2 SEA ABB=ON PLU=ON "US 5723363, 1998, WIESE"/RE  
 E JP 57194588/RE

## FILE 'DPCI' ENTERED AT 11:29:50 ON 23 OCT 2006

E JP 57194588/PN.D  
 L210 1 SEA ABB=ON PLU=ON JP57194588/PN.D  
 E US 5723363/PN.D  
 L211 5 SEA ABB=ON PLU=ON US5723363/PN.D  
 L212 6 SEA ABB=ON PLU=ON (L210 OR L211)  
 L213 SEL PLU=ON L212 1- PRN : 15 TERMS  
 L214 SEL PLU=ON L211 1- PN.D : 47 TERMS  
 L215 871 SEA ABB=ON PLU=ON L214  
 L216 11 SEA ABB=ON PLU=ON L215 AND EPOX#####  
 L217 36 SEA ABB=ON PLU=ON L215 AND RESIN###  
 L218 12 SEA ABB=ON PLU=ON L215 AND TRANSPAREN#####  
 L219 16 SEA ABB=ON PLU=ON L215 AND REFLECT#####  
 L220 69 SEA ABB=ON PLU=ON (L216 OR L217 OR L218 OR L219)  
 L221 SEL PLU=ON L220 1- PRN : 111 TERMS

## FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 11:32:11 ON 23 OCT 2006

L222 231 SEA ABB=ON PLU=ON L221  
 L223 18 SEA ABB=ON PLU=ON L213  
 L224 249 SEA ABB=ON PLU=ON L222 OR L223  
 L225 1 SEA ABB=ON PLU=ON L224 AND REFLECT##### (5A) (EPOX#### OR RESIN####)  
 L226 4 SEA ABB=ON PLU=ON L224 AND TRANSPAREN##### (5A) (EPOX#### OR RESIN####)  
 L227 5 SEA ABB=ON PLU=ON (L225 OR L226)

## FILE 'STNGUIDE' ENTERED AT 11:34:05 ON 23 OCT 2006

## FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 11:34:57 ON 23 OCT 2006

L228 244 SEA ABB=ON PLU=ON L224 NOT L227  
 L229 17 SEA ABB=ON PLU=ON L228 AND RESINS  
 L230 5 SEA ABB=ON PLU=ON L228 AND EPOXIES  
 L231 1 SEA ABB=ON PLU=ON L228 AND EPOXIDES  
 L232 0 SEA ABB=ON PLU=ON L228 AND SEALER  
 L233 0 SEA ABB=ON PLU=ON L228 AND SEALANT  
 L234 9 SEA ABB=ON PLU=ON L228 AND ENCAPSULANT  
 L235 2 SEA ABB=ON PLU=ON L228 AND TRANSPAREN##### (4A) (?POLYMER? OR  
 RESIN##### OR EPOX### OR MATERIAL)  
 L236 0 SEA ABB=ON PLU=ON L228 AND TRANSPAREN##### (4A) (SUBSTANCE OR  
 COMPOUND OR COMPOSITION)  
 L237 10 SEA ABB=ON PLU=ON L228 AND REFLECTOR  
 L238 0 SEA ABB=ON PLU=ON L228 AND WHITE  
 L239 38 SEA ABB=ON PLU=ON (L229 OR L230 OR L231 OR L232 OR L233 OR  
 L234 OR L235 OR L236 OR L237 OR L238)  
 L240 38 SEA ABB=ON PLU=ON L239 NOT L227  
 L241 25 SEA ABB=ON PLU=ON L240 AND 1990-2000/PRY  
 L242 17 SEA ABB=ON PLU=ON L240 AND 1990-2000/PY  
 L243 10 SEA ABB=ON PLU=ON L240 AND 2001/PY  
 L244 25 SEA ABB=ON PLU=ON (L241 OR L242 OR L243)  
 L245 4 SEA ABB=ON PLU=ON L240 AND 2001/PRY  
 L246 26 SEA ABB=ON PLU=ON L244 OR L245  
 L247 0 SEA ABB=ON PLU=ON L246 AND EL  
 L248 0 SEA ABB=ON PLU=ON L246 AND ELECTROLUM  
 L249 6 SEA ABB=ON PLU=ON L246 AND LIGHT EMIT#####  
 L250 3 SEA ABB=ON PLU=ON L246 AND LED  
 L251 1 SEA ABB=ON PLU=ON L246 AND LEDS  
 L252 7 SEA ABB=ON PLU=ON (L249 OR L250 OR L251)

## FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 11:41:14 ON 23 OCT 2006

L253 3 SEA ABB=ON PLU=ON L246 AND LED  
 L254 0 SEA ABB=ON PLU=ON L253 NOT L252

FILE 'STNGUIDE' ENTERED AT 11:42:00 ON 23 OCT 2006.

## FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 12:08:24 ON 23 OCT 2006

L255 462 SEA ABB=ON PLU=ON USMANI?/AU,IN  
 L256 597 SEA ABB=ON PLU=ON SALYER?/AU,IN  
 L257 50 SEA ABB=ON PLU=ON HAMID S/AU,IN  
 L258 30 SEA ABB=ON PLU=ON L255 AND L256  
 L259 0 SEA ABB=ON PLU=ON L255 AND L257  
 L260 0 SEA ABB=ON PLU=ON L256 AND L257  
 L261 6 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND ELECTROLUMINESCENT DEVICE  
 L262 0 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND EL  
 L263 0 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND PLED  
 L264 0 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND OLED  
 L265 1 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND LEDS  
 L266 3 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND LIGHT EMIT#####  
 L267 6 SEA ABB=ON PLU=ON (L255 OR L256 OR L257) AND ELECTROLUM?  
 L268 35 SEA ABB=ON PLU=ON (L258 OR L259 OR L260 OR L261 OR L262 OR  
 L263 OR L264 OR L265 OR L266 OR L267)  
 L269 6 SEA ABB=ON PLU=ON L268 AND EPOX#####  
 L270 16 SEA ABB=ON PLU=ON L268 AND RESIN####  
 L271 3 SEA ABB=ON PLU=ON L268 AND THERMAL##  
 L272 0 SEA ABB=ON PLU=ON L268 AND EXPAN#####  
 L273 0 SEA ABB=ON PLU=ON L268 AND ELONG#####  
 L274 1 SEA ABB=ON PLU=ON L268 AND L16

FILE 'REGISTRY' ENTERED AT 12:12:36 ON 23 OCT 2006

L275 145576 SEA ABB=ON PLU=ON EPOXY  
 L276 1630 SEA ABB=ON PLU=ON EPOXIDE

## FILE 'WPIX, JAPIO, HCAPLUS' ENTERED AT 12:13:37 ON 23 OCT 2006

L277 0 SEA ABB=ON PLU=ON L268 AND L276  
 L278 1 SEA ABB=ON PLU=ON L268 AND L275  
 L279 0 SEA ABB=ON PLU=ON L268 AND (CTE OR TEC)  
 L280 19 SEA ABB=ON PLU=ON (L269 OR L270 OR L271 OR L272 OR L273 OR L274) OR L278

FILE 'STNGUIDE' ENTERED AT 12:16:02 ON 23 OCT 2006

## FILE 'HCAPLUS' ENTERED AT 12:40:41 ON 23 OCT 2006

L281 4 SEA ABB=ON PLU=ON ("US 5177593, 1993, ABE"/RE  
 OR "US 5177593, 1993, ABE MUNEZO"/RE)  
 L282 1 SEA ABB=ON PLU=ON "US 5177593"/RE NOT L281

FILE 'DPCI' ENTERED AT 12:41:54 ON 23 OCT 2006

E US 5177593/PN.D  
 L283 17 SEA ABB=ON PLU=ON US5177593/PN.D  
 L284 SEL PLU=ON L283 1- PRN : 25 TERMS

FILE 'HCAPLUS' ENTERED AT 12:42:13 ON 23 OCT 2006

L285 17 SEA ABB=ON PLU=ON L284  
 L286 12 SEA ABB=ON PLU=ON L285 NOT (L282 OR L281)